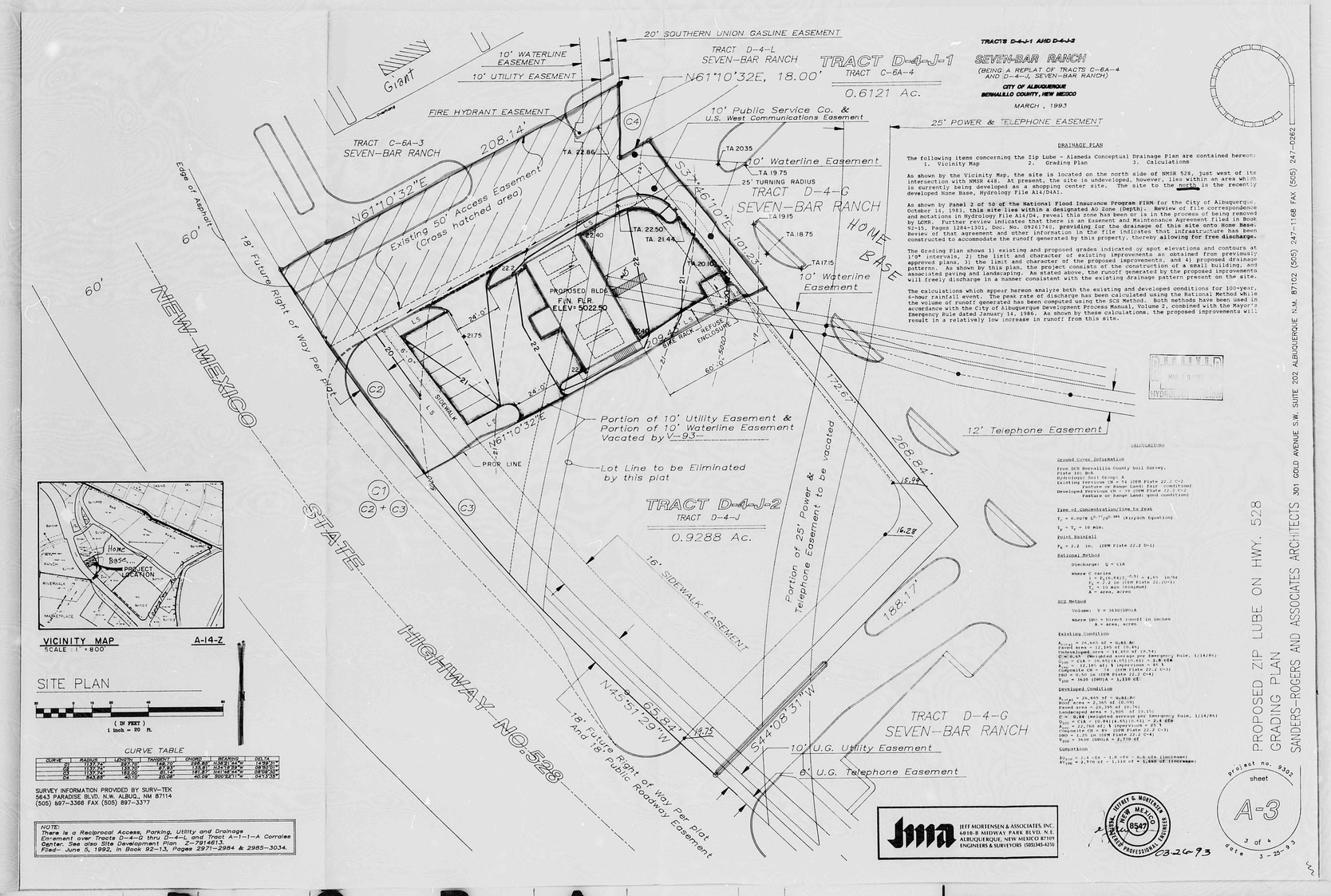
PUBLIC WORKS/HYDROLOGY

A/14/D5A




RE 23 DATE 3-13-02 OR E.S.P.

CITY OF ALBUQUERQUE

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DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
MY COMMISSION EXPIRES 6/18/02

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
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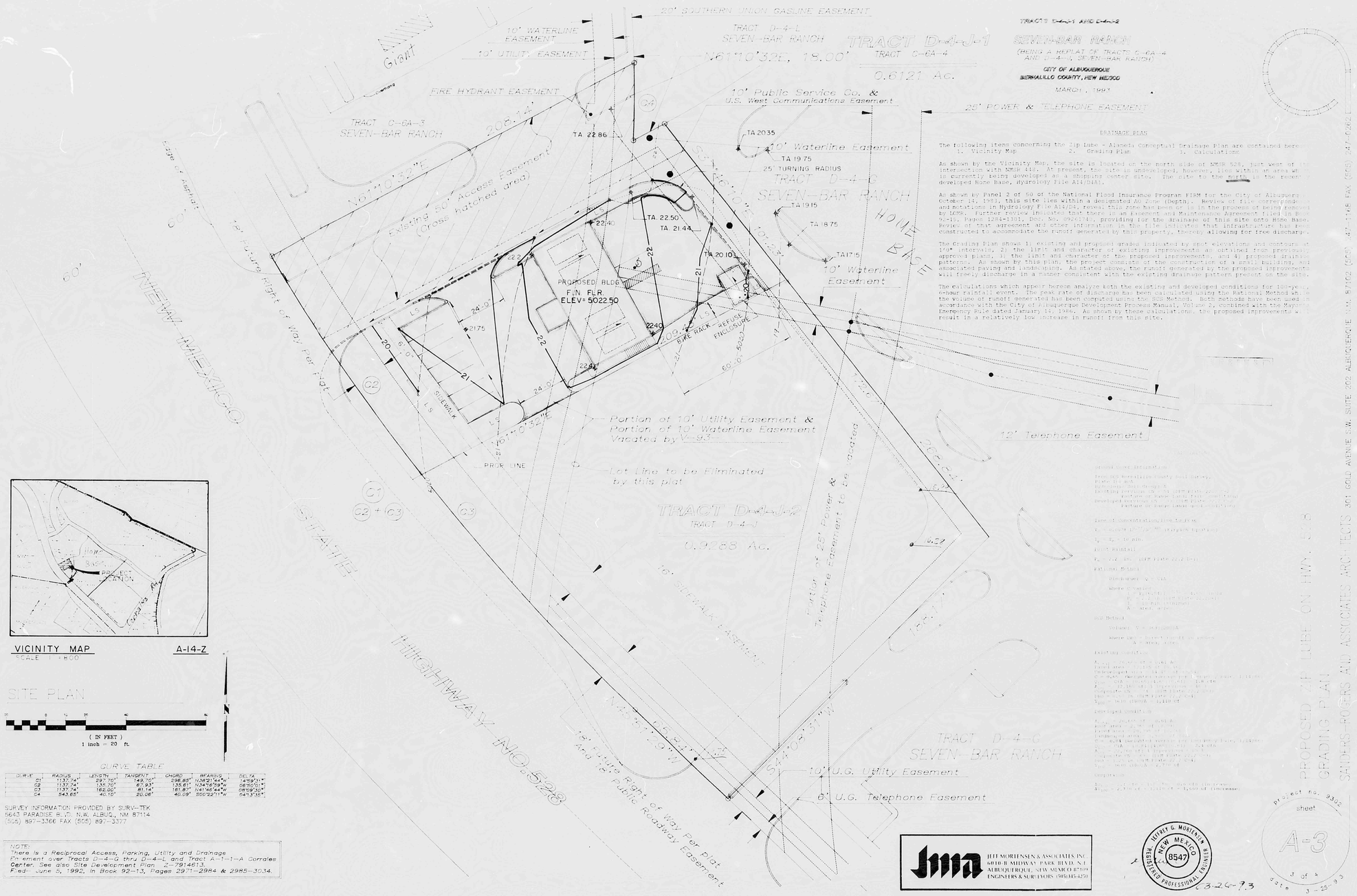
PLANS/PLATS ON FILE

FILE DESC: A14/D5A

# PLANS/PLATS 2

E 30 D 24 C 20 B 16 A 12

CITY OF ALBUQERQUE C D F

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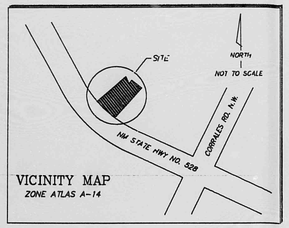
STATE OF NEW MEXICO
07/07/02

D24 C20 B16 A12 | CITY OF ALBUQERQUE C D




VICINITY MAP
ZONE ATLAS A-14

## LEGAL DESCRIPTION

TRACK D-4-J-1
SEVEN BAR RANCH
ALBUQUERQUE, BERNALILLO,
COUNTY, NEW MEXICO.

## EROSION CONTROL MEASURES:

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT OF STORM RUNOFF DURING CONSTRUCTION; HE SHALL INSURE THAT THE FOLLOWING MEASURES ARE TAKEN:

- ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF TO LEAVE THE SITE AND ENTERING ADJACENT PROPERTY.
- ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER THE PUBLIC STREETS.
- THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY OR ALL SEDIMENT WITHIN THE PUBLIC STREETS THAT HAVE BEEN ERODED FROM THE SITE AND DEPOSITED THERE.

## BENCH-MARK INFORMATION

TEMPORARY BENCH-MARK BEING THE TOP OF CURB SPRAY PAINTED ORANGE (TBM) BEARS ELEVATION 5072.324 MSL, REFERENCE TO CITY BENCH-MARK B-514 LOCATED AT THE INTERSECTION OF STATE HIGHWAY 528 AND CORRALES IN TRAFFIC ISLAND BEARS ELEVATION 5058.708 (MSL).

## DRAINAGE CALCULATIONS

I. REFERENCES:
- A. SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA FOR THE CITY OF ALBUQUERQUE, NEW MEXICO IN COOPERATION WITH BERNALILLO COUNTY, NEW MEXICO AND THE ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY.
- B. FLOODWAY, FLOOD BOUNDARY AND FLOODWAY MAP, CITY OF ALBUQUERQUE, NEW MEXICO, PANEL 02 OF 50.
- C. ZONE ATLAS PAGE A-14-Z.

II. GENERAL INFORMATION:
- A. SITE LIES IN ZONE ONE(1) (SEE REF. A, PAGE A-1)
- B. 100 YEAR, 6 HOUR RAINFALL CRITERIA
- C. TIME OF CONCENTRATION, Tc; Tc = 0.2 hr(12 MINUTES).

III. IMPERVIOUSNESS:

| TREATMENT TYPE | TYPES OF SURFACES | EXISTING SQ.FT | EXISTING ACRES | PROPOSED SQ.FT | PROPOSED ACRES |
|---|---|---|---|---|---|
| A | UNDEVELOPED | 0 | 0.0000 | 0 | 0.0000 |
| B | LANDSCAPING | 0 | 0.0000 | 5300 | 0.1217 |
| C | COMPACTED/VACANT | 14776 | 0.3392 | 0 | 0.0000 |
| D | IMPERVIOUS | 12933 | 0.2969 | 22409 | 0.5144 |
| | TOTAL AREA (TA) | 27709 | 0.6361 | 27709 | 0.6361 |

IV. PEAK DISCHARGE 100 YEAR (REF. A, TABLE A-9):

| TREATMENT TYPE | TYPES OF SURFACES | EXISTING CFS/Ac | EXISTING Qp(100) | PROPOSED CFS/Ac | PROPOSED Qp(100) |
|---|---|---|---|---|---|
| A | UNDEVELOPED | 1.29 | 0.00 | 1.29 | 0.00 |
| B | LANDSCAPING | 2.03 | 0.00 | 2.03 | 0.25 |
| C | COMPACTED/VACANT | 2.87 | 0.97 | 2.87 | 0.00 |
| D | IMPERVIOUS | 4.37 | 1.30 | 4.37 | 2.25 |
| | PEAK DISCHARGE FROM SITE | | 2.27 CFS | | 2.50 CFS |

V. PEAK DISCHARGE 10 YEAR (REF. A, TABLE A-9):

| TREATMENT TYPE | TYPES OF SURFACES | EXISTING CFS/Ac | EXISTING Qp(10) | PROPOSED CFS/Ac | PROPOSED Qp(10) |
|---|---|---|---|---|---|
| A | UNDEVELOPED | 0.24 | 0.00 | 0.24 | 0.00 |
| B | LANDSCAPING | 0.76 | 0.00 | 0.76 | 0.09 |
| C | COMPACTED/VACANT | 1.49 | 0.51 | 1.49 | 0.00 |
| D | IMPERVIOUS | 2.89 | 0.86 | 2.89 | 1.49 |
| | PEAK DISCHARGE FROM SITE | | 1.36 CFS | | 1.58 CFS |

VI. WEIGHTED "E" 100 YEAR, 6 HR. (REF. A, TABLE A-8):

| TREATMENT TYPE | TYPES OF SURFACES | EXISTING E | EXISTING Exa/TA | PROPOSED E | PROPOSED Exa/TA |
|---|---|---|---|---|---|
| A | UNDEVELOPED | 0.44 | 0.00 | 0.44 | 0.00 |
| B | LANDSCAPING | 0.67 | 0.00 | 0.67 | 0.13 |
| C | COMPACTED/VACANT | 0.99 | 0.53 | 0.99 | 0.00 |
| D | IMPERVIOUS | 1.97 | 0.92 | 1.97 | 1.69 |
| | WEIGHTED "E" FACTOR | | 1.45 IN | | 1.72 IN |

VII. VOLUME:

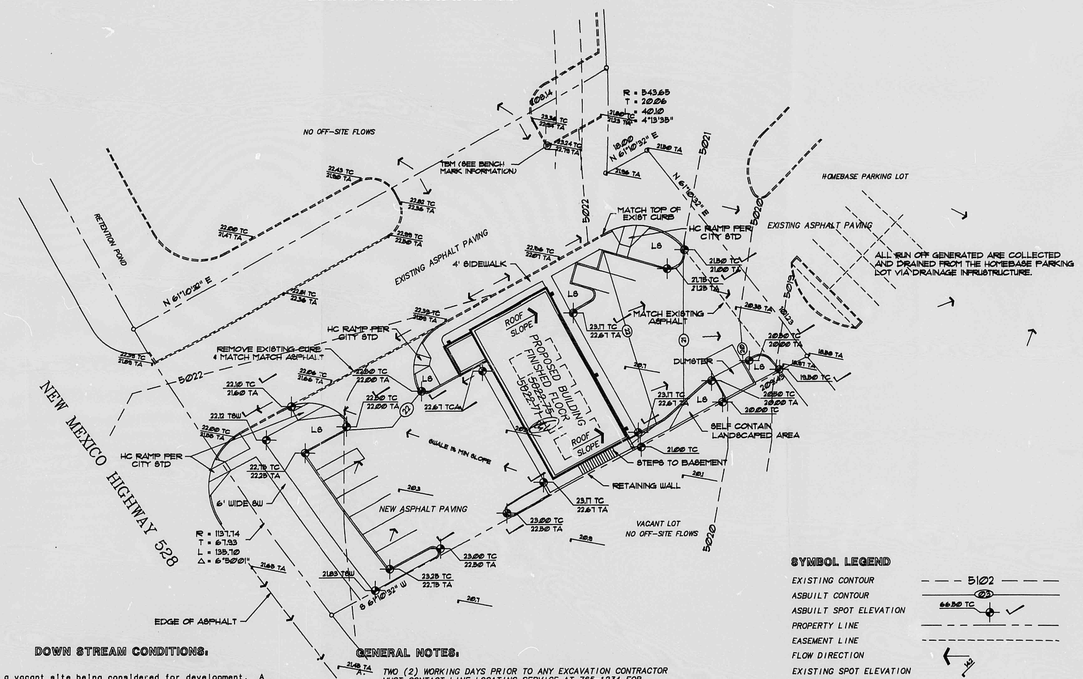
EXISTING 1.45 IN/12 x 0.6361 AC = 0.0769 AC-FT
= 3,348 CU FT

PROPOSED 1.72 IN/12 x 0.6361 AC = 0.0912 AC-FT
= 3,972 CU FT

## CERTIFICATION

I R.G Lee, Jr, Registered Professional Engineer hereby certify the improvements shown hereon are in substantial compliance with the approved drainage plan.

R.G LEE, JR. — Date 5/4/94




## DOWN STREAM CONDITIONS:

This is a vacant site being considered for development. A portion of the paved area drains run-off into Highway 528 right-of-way and eventually into the parking lot of HOMEBASE. The back or the northern portion of this lot drains directly into HOMEBASE parking lot. The HOMEBASE parking lot is paved and drained by drainage infrastructures. The drainage system was designed to accommodate additional run-off generated from the subject site. Drainage into HOMEBASE property is permitted by Easement and Maintenance Agreement file in Book 92-15, Pages 1284 to 1301, Document Number 09281740. This agreement allows free discharge into adjacent property. This plan complies with the approved Conceptual Drainage Plan submitted to EPC & DRB, Case Number Z-93-52.

The proposed drainage plan will not alter existing drainage schemes and will have minimal impact on down stream conditions:

## GENERAL NOTES:

A. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 765-1234 FOR LOCATION OF EXISTING UTILITIES.
B. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
C. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
D. ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.

## SYMBOL LEGEND

EXISTING CONTOUR — 5102
ASBUILT CONTOUR — 5102
ASBUILT SPOT ELEVATION — 66.50 TC
PROPERTY LINE
EASEMENT LINE
FLOW DIRECTION
EXISTING SPOT ELEVATION
DOWN SPOUT (NO TO SCALE)
EXISTING CURB

## ABBREVIATION LEGEND

TOP OF CONC APRON - TCA
TOP OF CURB - TC
TOP OF ASPHALT - TA
TOP OF SIDEWALK - TSW
LANDSCAPING - LS

# ASBUILT GRADING & DRAINAGE PLAN

SCALE: 1"=20.0'

0 5' 10' 20' 40'

RECEIVED MAY - 4 1994

| | |
|---|---|
| Job Number | 9314 |
| Date | OCT 25, 1993 |
| Revised | |

Sheet Title: ASBUILT GRADING AND DRAINAGE PLAN

Drawn by: H HOOD — Checked by: RG LEE,JR.

Lee Engineering — 8505 CONNECTICUT N.E. ALBUQUERQUE, NEW MEXICO

Job Title: ZIPLUBE ALBUQUERQUE, NEW MEXICO

Sheet Number: 19

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DIRECTOR

NOTARY PUBLIC
OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 07/24/02

D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D